JUL 3 0 2004 S

PTC/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control nu

le for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)
Sheet 1 of 1

a collection of information unless it displays a	I Valio UMB Control number.
Application Number	10/721,034
Filing Date	November 24, 2003
First Named Inventor	Mast, T. Douglas
Group Art Unit	Not assigned
Examiner Name	Dennis Ruhl
Attorney Docket Number	END-5042CIP

				U.S. PATENT DOCUMENTS		
Examiner Initials	Cit e No	U.S. Patent Docu	iment Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document mm-dd-yyyy	Pages, Columns, Lines, where relevant passages or relevant figures appear
14		5,492,126		Hennige, et al.	02-20-1996	ALL
M		5,391,197		Burdette, et al.	02-21-1995	ALL
	L					

FOREIGN PATENT DOCUMENTS Date of Publication Pages, Columns, Lines, Foreign Patent Document of Cited Document where relevant Name of Patentee or passages or relevant Cite Examiner mm-dd-yyyy Applicant of Cited Document figures appear Initials KindCode⁵ Office³ Number⁴ No.1

Examiner Signature	Silver		(11/27/02)				
*EXAMINER	EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance						
and not cons	idered. Include copy of this form with next communication to applicant.						

I Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



SUBMISSION UNDER MPEP 609 D

Page 1 of 1

Application Number	10/721,034
Filing Date	November 24, 2003
First Named Inventor	Mast, T. Douglas
Group Art Unit	Not assigned
Examiner Name	Dennis Ruhl
Attorney Docket Number	END-5042CIP

		U.S. PAT	ENT DOCUMENTS		
			U.S. Patent Documen	t	0-1
Examiner Initials	Cite No.1	Name of Patentee or Applicant of Cited Document	Number	Kind Code ² (if known)	Pages, Columns, Lines, where relevant passages or relevant figures appear
1	1		1		

FOREIGN PATENT DOCUMENTS Foreign Patent Document Pages, Columns, Lines, where relevant passages or relevant figures Name of Patentee or Examiner Cite Applicant of Cited Document Number⁴ KindCode⁵ appear No.1 OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published Examiner Cite Initials* International Preliminary Examination Report dated March 30, 2004 for corresponding International patent application No. PCT/US02/16695.

Examiner Signature	10/-	Date Considered (11/27/07)

INFORMATION	ON DISCLOSURE CITATION	ON							
Page 1 of 1	OIPE		Dock	et: END5042USCIP1	Appl	n. No. 1	0/721,0	34	-
	40		Appli	cant: T. Douglas Mast	T		<u> </u>		
	1 NFC 2 7 7005		Filed	: November 24, 2003	Grou	ıp: 3737			
	TAN PENNSTER	U.S. I	PATE	NT DOCUMENTS					
Examiner	Document No.	D	ate	Name		Class	Sub		
14	3,779,234	12/	1973	Eggleton et al.					
M	6,340,352	01/2	2002	Okada et al.					
			-						
					į				
	FOR	EIGN I	PATE	NT DOCUMENT .				Tra	ns
Examiner	Document No. 9098980	Da	ate 997	Country		Class	Sub	Υ	N
						· .			
	OTHER DOCUMENTS	6 (Inclu	iding i	Author, Title, Date, Pertiner	nt Pag	es, Etc.)		-,	
Examiner:	The	Date	Cons	idered: (11/27/07)					

* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION	Docket: END-5042	Appln. No. 10/721,034
Page 1 of 1 (JUL 0 3 2006 gr	Applicant: T. Douglas Mast	
1 3	Filed: November 24, 2003	Group: 3737
TO TRADEMAN		

	U.S. PATI	NT DOCUMENTS				
Document No.	Date	Name	Class	Sub		
2003/0120306	06/2003	Burbank et al.				
5,398,690	03/1995	Batten et al.				
5,421,338	06/1995	Crowley et al.				
5,603,326	02/1997	Richter				
5,810,742	09/1998	Pearlman				
5,840,022	11/1998	Richter				
6,013,031	01/2000	Mendlein et al.				
6,156,029	12/2000	Mueller				
6,159,207	12/2000	Yoon				
6,461,314	10/2002	Pant et al.				
6,659,949	12/2003	Lang et al.				
6,702,745	03/2004	Smythe				
FO	REIGN PATE	ENT DOCUMENT		J	Tra	ans
Document No.	Date	Country	Class	Sub	Υ	N
	2003/0120306 5,398,690 5,421,338 5,603,326 5,810,742 5,840,022 6,013,031 6,156,029 6,159,207 6,461,314 6,659,949 6,702,745	Document No. Date 2003/0120306 06/2003 5,398,690 03/1995 5,421,338 06/1995 5,603,326 02/1997 5,810,742 09/1998 5,840,022 11/1998 6,013,031 01/2000 6,156,029 12/2000 6,159,207 12/2000 6,461,314 10/2002 6,659,949 12/2003 6,702,745 03/2004	2003/0120306 06/2003 Burbank et al. 5,398,690 03/1995 Batten et al. 5,421,338 06/1995 Crowley et al. 5,603,326 02/1997 Richter 5,810,742 09/1998 Pearlman 5,840,022 11/1998 Richter 6,013,031 01/2000 Mendlein et al. 6,156,029 12/2000 Mueller 6,159,207 12/2000 Yoon 6,461,314 10/2002 Pant et al. 6,659,949 12/2003 Lang et al. 6,702,745 03/2004 Smythe	Document No. Date Name Class 2003/0120306 06/2003 Burbank et al. 5,398,690 03/1995 Batten et al. 5,421,338 06/1995 Crowley et al. 5,603,326 02/1997 Richter 5,810,742 09/1998 Pearlman 5,840,022 11/1998 Richter 6,013,031 01/2000 Mendlein et al. 6,156,029 12/2000 Mueller 6,159,207 12/2000 Yoon 6,461,314 10/2002 Pant et al. 6,659,949 12/2003 Lang et al. 6,702,745 03/2004 Smythe	Document No. Date Name Class Sub 2003/0120306 06/2003 Burbank et al. Sub 5,398,690 03/1995 Batten et al. Sub 5,421,338 06/1995 Crowley et al. Crowley et al. 5,603,326 02/1997 Richter Richter 5,840,742 09/1998 Pearlman Pearlman 6,013,031 01/2000 Mendlein et al. Mendlein et al. 6,156,029 12/2000 Mueller Mueller 6,159,207 12/2000 Yoon Font et al. 6,659,949 12/2003 Lang et al. 6,702,745 03/2004 Smythe	Document No. Date Name Class Sub 2003/0120306 06/2003 Burbank et al. Sub 5,398,690 03/1995 Batten et al. Sub 5,421,338 06/1995 Crowley et al. Crowley et al. 5,603,326 02/1997 Richter Richter 5,810,742 09/1998 Pearlman Pearlman 6,013,031 01/2000 Mendlein et al. Mendlein et al. 6,156,029 12/2000 Mueller Mueller 6,461,314 10/2002 Pant et al. Ang et al. 6,659,949 12/2003 Lang et al. Ang et al. FOREIGN PATENT DOCUMENT Training Training

	OTHER DOCUMENT	S (Including Author,	Title, Date, Pe	ertinent Pages,	Etc.)
				<u> </u>	·
Examiner:	Sham	Date Considered:	(11/27/07)		_

^{*} Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Page 1 of 1	ON DISCLOSURE CITATION OF E 40 2 2 2006	D'bc	ket: END-5042 licant: T. Douglas Mast	Appin. No. 1	0/721,0	34	
	\	File	d: 11/24/2003	Group: 3737	, 	_	
	TRABELLATE.	U.S. PAT	ENT DOCUMENTS				
Examiner	Document No.	Date	Name	Class	Sub		
1/1	5,471,988	12/1995	Fujio et al.				
7	5,776,092	07/1998	Farin et al.				
V	6,149,598	11/2000	Tanaka				
	-						
-							
	FOI	REIGN PATE	ENT DOCUMENT			Tra	ans
Examiner	Document No.	Date	Country	Class	Sub	Y	N
M	01/97702	12/2001	Patent Cooperation Treaty				
<i></i>							
	OTHER DOCUMEN	TS (Including	Author, Title, Date, Pertinent	Pages, Etc.)			
							

Examiner: Date Considered: (11/27/67)

* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

•				·			
	ION PISCLOSURE CITATI	ON Doc	ket: END5042	Appln. No. 1	0/721,0	34	
Page 1 of 1/	NOV 2 0 2006	Арр	licant: T. Douglas Mast				
		File	d: November 24, 2003	Group: 3737			
	THE PLANTS	110 DAT	ENT DOOUNENTO				
			ENT DOCUMENTS		Γ	Т	
Examiner	Document No.	Date 11/1991	Name Name	Class	Sub	-	
MI	5,065,740	11/1991	NON				
	5,421,338	06/1995	Crowley et al.				
	5,492,126	02/1996	Hennige et al.				_
	5,569,241	10/1996	Edwards		<u> </u>		
-1	5,762,066	06/1998	Law et al.				
	5,810,742	09/1998	Pearlman				
	5,964,755	10/1999	Edwards				
	6,071,279	06/2000	Whayne et al.				
	6,156,029	12/2000	Mueller			<u> </u>	
	6,159,207	12/2000	Yoon				
	6,266,552	07/2001	Slettenmark				
\forall	6,461,314	10/2002	Pant et al.				
1	FOR	REIGN PATE	ENT DOCUMENT	I		Tra	ans
Examiner	Document No.	Date	Country	Class	Sub	Υ	N
LAGITIHI ICI	Document No.	Date	Country		Sub	1	IN.
							-
	OTHER DOCUMENT	S (Including	Author, Title, Date, Pertiner	nt Pages, Etc.)		L	L

Examiner:

Date Considered: (1/27/07)

Date Considered: (1/27/07)

* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

•							
INFORMA	TION CONTROL CITATION	Doc	ket: END-5042	Appln. No. 1	0/721,0	34	-
Page 1 of	JAN 0 4 2007 8		licant: Douglas T. Mast				
\			d: November 24, 2003	Group: 3737	,		
	Trause	1110	d. 11010111B01 2 1, 2000	<u> </u>			
•	U.S	. PAT	ENT DOCUMENTS		1	ı	
Examiner		ate	Name	Class	Sub		
M	5,514,085	/1996	Yoon				
A	6,602,251 08	/2003	Burbank et al.				
							•
<u> </u>	FORFIGN	I PATI	ENT DOCUMENT	<u> </u>	I	Tra	ans
Examiner	Document No. D	ate	Country	Class	Sub	Y	N
	OTHER DOCUMENTS (Inc	cluding	g Author, Title, Date, Pertinent F	Pages, Etc.)			

Date Considered: (1/27/07) * Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner:

PTO/SB/08a (05-07)

Approved for use through 09/30/2007. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE	Application Number		10721034		
	Filing Date		2003-11-24		
	First Named Inventor T. Dou		ouglas Mast		
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit		3768		
(NOTION SUDMISSION UNICE 37 OFK 1.55)	Examiner Name	Franc	cis J. Jaworski		
	Attorney Docket Numb	er	END5042USCIP		

	U.S.PATENTS Remove										,
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue D	Pate	Name of Pate of cited Docu	entee or Applicant Iment	Releva		Lines where ges or Relev	
M	1	5928169		1999-07	'-27	Schatzle et al.					
h	2	6159207		2000-12	?-12	Yoon					
If you wish to add additional U.S. Patent citation information please click the Add button.											
U.S.PATENT APPLICATION PUBLICATIONS Remove											
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publica Date	ition	Name of Pate of cited Docu	entee or Applicant ment	s,Columns,Lines where ant Passages or Relevan es Appear			
	1										
If you wisl	n to ac	dd additional U.S. Publi	shed Ap	plication	citatio	n information p	lease click the Add	d button	Add		
				FOREIC	SN PAT	ENT DOCUM	ENTS		Remove		
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²		Kind Code ⁴	Publication Date	Name of Patented Applicant of cited Document	e or	vhere Rele	or Relevant	T5
4	1	09-192139	JP			1997-07-29	Olympus Optical Co	o. Ltd.			
W	2	04-307044	JP			1992-10-29	Olympus Optical Co	o. Ltd.			

, 4												
F '	-		-	Applic	ation N	umber		10721034				
•				Filing	Date			2003-11-24				
		TION DISCLOSE		First N	lamed l	nventor	T. D	ouglas Mast				
		NT BY APPLICA		Art Un	nit		<u> </u>	3768				
(Not for	subm	ission under 37 CFR	1.99)	Exami	ner Na	me	Fran	icis J. Jaworski				
				Attorn	ey Doc	ket Numb	er	END5042USCIP				
M	3	08-084470	JP			1996-03-2	6	Origin Electric Co. Ltd.				
If you wish to add additional Foreign Patent Document citation information please click the Add button Add												
NON-PATENT LITERATURE DOCUMENTS Remove												
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.					T 5					
	1											
If you wis	h to a	dd additional non-pater	nt literature	e docur	nent cit	ation infor	matic	on please click the Add b	outton Add			
				EX	AMINE	R SIGNA	TURE					
Examiner	Signa	iture ///	1					Date Considered	11/27/07			
			•					rmance with MPEP 609.	Draw line through a	1		
Standard ST 4 Kind of do	Γ.3). ³ F cument	For Japanese patent docume	ents, the indi	cation of	the year	of the reign o	of the E	office that issued the documer Emperor must precede the seri ard ST.16 if possible. ⁵ Applic	ial number of the patent d	ocument.		

INFORMATION DISCLOSURE CITATION	Docket: END5042USCIP	Appln. No. 10/721,034
Page 1 of 1 (NOV 0 1 2007)	Applicant: T. Douglas Mast	
TRADE MADE	Filed: November 24, 2003	Group: 3768

U.S. PATENT DOCUMENTS

Examiner	Document No.	Date	Name	Class	Sub		
M	5,931,805	08/03/1999	Brisken				
M	6,371,973	04/16/2002	Tepper				
				·			
						<u>.</u>	
	F	OREIGN PATEN	T DOCUMENT		1	Tra	ans
Examiner	Document No.	Date	Country	Class	Sub	Υ	N
M	04-307044	10/29/1992	JP	,			
M	10-511477	11/04/1998	JP				
M	09-192139	07/29/1997	JP				
M	08-084740	04/02/1996	JP				

OTHER DOCU	MENTS (Including Author, Title, Date, Pertinent	Pages, Etc.)
Examiner: Mh	Date Considered: 11/27/07	

* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMA	INFORMATION DISCLOSURE CITATION			Docket: END5042USCIP Appln. No. 10/721,034							
Page 1 of 1	1				cant: T. Douglas Mast						
				Filed:	November 24, 2003	Grou	up: 3768				
			U.S.	PATE	NT DOCUMENTS						
Examiner		Document No.		Date	Name		Class	Sub			
ful 1		5,687,729	11/1		Schaetzle						
7		5,769,790	06/1	998	Watkins et al.						
		6,050,943	04/2	000	Slayton et al.						
		6,106,517	08/2	000	Zupkas						
	 	6,156,029	12/2	000	Mueller						
		6,340,352	01/2	002	Okada et al.	 					
V		6,575,969	06/2	003	Rittman et al.						
	.J	FOF	RFIGN	PATE	NT DOCUMENT		1	I	Tra	ans	
F							Class	Cub	Υ		
Examiner	\vdash	Document No.	ט	ate	Country		Class	Sub	Y	N	
		120000000000000000000000000000000000000									
		OTHER DOCUMENT	rs (Inc	ludina	Author, Title, Date, Pertinent	Pages	. Etc.)				
		J. HELL BOOMEN	<u> </u>		ration into bato, rounding	500	, =,				

Examiner: Date Considered: // 27/07

* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. PATENT DOCUMENTS

Examiner	Document No.	Date	Name	Class	Sub	
MI	3,779,234	12/18/1973	Eggleton et al.			
	5,042,486	08/27/1991	Pfeiler et al.			
	6,059,731	05/09/2000	Seward et al.			
V	6,083,159	07/04/2000	Driscoll et al.			
			•			

FOREIGN PATENT DOCUMENT Trans

Examiner	Document No.	Date	Country	Class	Sub	Y	N
14	97/29709	08/21/1997	WO				
M	99/33500	07/08/1999	WO				
M	01/43641	06/21/2001	wo				

OTHER DOCUME	ENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	·	
Examiner:	Date Considered: 11/27/67	

^{*} Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.